

CLAIMS

1. (Previously Presented) A method for handling secure message attachments for a mobile device, comprising the acts:

receiving at a server a second attachment provided within a secure message;

wherein the secure message itself was received by the server as a first attachment;

providing the secure message without the second attachment to the mobile device;

receiving a request for the second attachment from the mobile device;

processing at the server the secure message in order to locate within the secure message the second attachment; and

providing the second attachment to the mobile device;

wherein the second attachment is automatically provided by the server to the mobile device when the secure message previously received by the mobile device is opened in response to a request at the mobile device.

2. (Original) The method of claim 1, wherein the secure message is structured according to a security scheme such that the secure message is handled as an attachment by the server.

3. (Original) The method of claim 2, wherein the security scheme includes a symmetric key scheme.

4. (Original) The method of claim 2, wherein the security scheme includes an asymmetric key scheme.

5. (Original) The method of claim 2, wherein the security scheme is a Secure Multipurpose Internet Mail Extensions (S/MIME) scheme.
6. (Original) The method of claim 1, wherein the secure message is structured such that a secure layer has been added to the message and the second attachment.
7. (Original) The method of claim 6, wherein the secure layer acts as an envelope with respect to the message and the second attachment.
8. (Original) The method of claim 7, wherein the secure layer was generated during an encryption operation.
9. (Previously Presented) The method of claim 8, wherein a session key is received by the server from the mobile device for use by the server to decrypt the secure message which has been sent from an e-mail sender for routing to the mobile device.
10. (Original) The method of claim 7, wherein the secure layer was generated during a digital signature operation.
11. (Original) The method of claim 10, wherein the secure layer was generated during an encryption operation.

12. (Previously Presented) The method of claim 1, wherein the second attachment is selected from the group consisting of: a textual document, word processing document, audio file, image file, and video file.

13. (Canceled without prejudice)

14. (Previously Presented) The method of claim 1, wherein the request from the mobile device for the second attachment results from a user request about the second attachment.

15. (Previously Presented) The method of claim 1, wherein the request from the mobile device includes data to be used by the server to identify the second attachment that is to be provided to the mobile device.

16. (Previously Presented) The method of claim 1, wherein the secure message is structured such that a secure layer has been added to the message and the second attachment, wherein the secure layer was generated during an encryption operation, wherein a decryption operation is performed in order to locate within the secure message the second attachment.

17. (Original) The method of claim 1, wherein the secure message has a plurality of attachments.

18. (Previously Presented) The method of claim 1, wherein the server provides an indication to the mobile device that the secure message has the second attachment, wherein the indication is

used by the mobile device to provide a user indication that the secure message has the second attachment.

19. (Canceled without prejudice)

20. (Original) The method of claim 1, wherein the second attachment is rendered before being provided to the mobile device.

21. (Previously Presented) The method of claim 1, wherein means for providing a wireless network and means for providing a message server are used to communicate the located second attachment to the mobile device.

22. (Original) The method of claim 1, wherein the mobile device is a handheld wireless mobile communications device.

23. (Original) The method of claim 1, wherein the mobile device is a personal digital assistant (PDA).

24. (Canceled without prejudice)

25. (Original) Computer-readable medium capable of causing a mobile device to perform the method of claim 1.

26. (Previously Presented) An apparatus located at a computer server for handling secure message attachments for a mobile device, wherein the server receives a secure message containing a second attachment, comprising:

a data store that stores the secure message and the second attachment;

wherein the secure message contains a secure layer such that the secure message itself is received by the server as a first attachment;

wherein the secure message is provided without the second attachment to the mobile device;

a secure message processing module that looks into the secure message through the secure layer in order to locate the second attachment;

wherein the second attachment is provided to the mobile device after the server receives a request for the second attachment from the mobile device;

wherein the second attachment is automatically provided by the server to the mobile device when the secure message previously received by the mobile device is opened in response to a recipient request.

27. (Original) The apparatus of claim 26, further comprising:

a rendering module that renders the second attachment before the second attachment is provided to the mobile device.

28. (Original) The apparatus of claim 26, further comprising:

a decryption processing module to decrypt the secure message so that the second attachment can be located within the secure message.

29. (Previously Presented) An apparatus located at a computer server for handling secure message attachments for a mobile device, comprising:

means for receiving a second attachment provided with a secure message;

wherein the secure message itself was received by the server as a first attachment;

means for providing the secure message without the second attachment to the mobile device;

means for receiving a request for the second attachment from the mobile device;

means for processing the secure message in order to locate within the secure message the second attachment;

means for providing the second attachment to the mobile device;

wherein the second attachment is automatically provided by the server to the mobile device when the secure message previously received by the mobile device is opened in response to a recipient request.

30. (Previously Presented) The apparatus of claim 29, further comprising:

a rendering module that renders the second attachment before the second attachment is provided to the mobile device;

a decryption processing module to decrypt the secure message so that the second attachment can be located within the secure message.